

CLAIMS

What is claimed is:

1. An anti-armor projectile comprising:

a tail fin boom having a first end comprising a fin-end and a second end comprising a main body end, said tail fin boom having an inner hollow area closed at said first end and open at said second end;

a warhead disposed in said hollow area to serve as a kinetic-energy penetrator; and a restraining means that holds said warhead to prevent movement thereof in said hollow area prior to impact.

2. The anti-armor projectile as in claim 1 further comprising a release means disposed in said tail fin boom to release said warhead upon impact.

3. The anti-armor projectile as in claim 1 wherein said warhead comprises high-density materials.

4. The anti-armor projectile as in claim 3 wherein said high-density materials are selected from the group of tungsten and depleted uranium.

5. The anti-armor projectile as in claim 1 wherein said warhead is shaped as a rod and has a rod-front-end and a rod-rear-end.

6. The anti-armor projectile as in claim 5 wherein said restraining means comprises a rear-step non-circular cross section formed in said rod-rear-end of said warhead and cavity of non-circular cross section provided in a surface of said tail fin boom at said first end, wherein said rear-step and said cavity fit together to prevent spin-slipping movement of said warhead relative to said anti-armor projectile.
7. The anti-armor projectile as in claim 5 wherein said warhead comprises a non-circular front-step formed in said rod-front-end of said warhead.
8. The anti-armor projectile as in claim 1 wherein a surface of said tail fin boom at said first end where said hollow area is closed maintains structural integrity during forward inertia launch of said anti-armored projectile.
9. The anti-armor projectile as in claim 1 wherein said restraining means comprises restraining threads provided in said tail fin boom at said second end and a screwing nut functioning to hold said warhead inside said hollow area to prevent axial movement of said warhead relative to said anti-armor projectile when said screwing nut is tightened.
10. The anti-armor projectile as in claim 9 wherein said restraining threads provide for self-destruction due to the force of impact releasing the warhead.

11. The anti-armor projectile as in claim 9 wherein said screwing nut has threads which provide for self-destruction due to the force of impact releasing the warhead.

12. The anti-armor projectile as in claim 9 wherein said screwing nut has two sides wherein one side has a protruding head with a shape selected from the group consisting of a hexagon, a pentagon, a square or a triangle to facilitate manipulation of said screwing nut in said tail fin boom.

13. The anti-armor projectile as in claim 8 wherein said restraining means comprises a sleeve matching said rod-front-end and placed between said warhead and said screwing nut as to prevent spin-slipping movement of said warhead relative to said anti-armor projectile.